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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,620	07/17/2003	Graham M. Clarke	57901US005	1875
32692	7590 10/12/2006		EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY			WITCZAK, CATHERINE	
PO BOX 33427 ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER
,			3767	
			DATE MAILED: 10/12/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/621,620	CLARKE ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Catherine N. Witczak	3767				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 04 Au	1) Responsive to communication(s) filed on <u>04 August 2006</u> .					
·—	,—					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-40</u> is/are pending in the application.						
4a) Of the above claim(s) <u>19-40</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-18</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Olaim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) 🔲 Notice of Informal P					
Paper No(s)/Mail Date <u>8/4/2006</u> .	6) Other:					

Art Unit: 3767

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-8 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Sherman et al (US 2002/0020688).

Sherman et al disclose in Figure 3B a microneedle device comprising a first major surface (300), a plurality of microneedles (100) formed of polymers (paragraphs 0061) comprising a base that is tapered to a flat truncated tip distal the base (Figure 3A). Sherman et al further disclose in paragraphs 0038 and 0039 the microneedle capable of comprising a solid cross-sectional area of 20 square micrometers or more at a distance of 0.98h from the base; the base area capable of being 900 square micrometers or more, and the height base ratio being capable of being 3:1 or more. Sherman et al also disclose in these paragraphs a microneedle device capable of having a cross-sectional area of no more than 25% of the base on a plane located at a distance of 0.98h from the base.

Sherman et al disclose in paragraph 009 the method of using the microneedle device (531) comprising the step of contacting the skin (542), and forcing the microneedle device against the skin.

2. Claims 9-16 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Gonnelli (US 2003/0135167).

Gonnelli discloses in Figure 11 and paragraphs a microneedle device comprising a first major

surface (140), a plurality of microneedles (182, 184) formed of polymers (paragraphs 0015 and 0016)

comprising a base that is tapered to a flat truncated tip distal the base. Gonnelli further discloses in

paragraphs 0075 and 0076 the flat tip capable of comprising an area of between 20 and 100 square

micrometers and the base are capable of being 900 square micrometers or more, and the height base ration

being capable of being 3:1 or more. Gonnelli also disclose in these paragraphs a microneedle device

capable of having a cross-sectional area of no more than 25% of the base on a plane located at a distance

of 0.98h from the base.

Gonnelli discloses in paragraph 0009 the method of using the microneedle device comprising the

step of contacting the skin and forcing the microneedle device against the skin.

Response to Arguments

3. Applicant's arguments filed 8/4/2006 have been fully considered but they are not persuasive.

Applicant argues that Figure 11 of Sherman does not possess a flat tip, but rather a sharp circular edge at

the tip of the needle. However, even if one were to assume that this is the case, it is still inherent that even

a "sharp circular edge" must have some width to it, and thus inherently possesses a flat tip.

4. Applicant's arguments with respect to claims 9-16 and 18 have been considered but are moot in

view of the new ground(s) of rejection.

Application/Control Number: 10/621,620

Art Unit: 3767

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set

forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from

the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing

date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH

shortened statutory period, then the shortened statutory period will expire on the date the advisory action

is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Catherine N. Witczak whose telephone number is (571) 272-7179. The examiner can

normally be reached on Monday through Friday, 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin

Sirmons can be reached on (571) 272-4965. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

KEVIN C. SIRMONS

SUPERVISORY PATENT EXAMINER

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Page 4

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